

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) In a frame support for a rack or a switchgear cabinet, having an electrification arrangement combined with at least one frame leg (2, 3) or profiled mounting element (4), for at least one of supplying and removing electrical current one of to and from connectible devices, the frame support comprising:

the electrification arrangement having at least one separate electrification strip (60) attached to one of a frame leg (2, 3) and a profiled mounting element (4) formed by a hollow profiled receiving element (6) at least partially open on a long side and having at least one hollow space in which one of contact rails (10) and connection lines (16) are installed and protected against electric shock; and

inserts (7) insertable into the electrification strip (60) and having plug receivers protected against electric shock for device plugs of devices to be connected, and contact elements (7.11) electrically contactable with the one of the contact rails (10) and the connecting lines (16), and an overload device integrated into the inserts.

2. (Previously Presented) The frame support in accordance with claim 1, wherein a profiled insulating element (9), in which the contact rails (10) are embedded and are accessible in a manner protected against electric shock through access openings (9.23) formed in the profiled insulating element (9), is inserted into at least one hollow space (6.3, 6.3') of the profiled receiving element (6).

3. (Previously Presented) The frame support in accordance with claim 2, wherein the at least one hollow space (6.3) is one of rectangular and square in cross section and has a base wall (6.2) located opposite the open longitudinal side adjoined by lateral walls (6.1), a bottom (9.3) of a bottom section of the profiled insulated element (9) in which the contact rails (10) are embedded faces one of the base wall (6.2) and a lateral wall (6.1), and the contact rails (10) are contactable with the contact elements (7.11) via access openings (9.23), which are narrow for electric shock protection and cut into the bottom section of a side located opposite a bottom side.

4. (Previously Presented) The frame support in accordance with claim 3, wherein the insulated profiled element (9) is fixed in place in the profiled receiving element (6) by snap-in structures (9.21, 9.22, 9.22') and complementary counter snap-in structures (6.11, 6.11') arranged in the profiled receiving element (6).

5. (Previously Presented) The frame support in accordance with claim 4, wherein the snap-in structures (9.21, 9.22, 9.22') and the counter snap-in structures (6.11, 6.11') have steep snap-in flanks opposite an insertion direction, for preventing removal of the profiled insulating element (9).

6. (Previously Presented) The frame support in accordance with claim 5, wherein the profiled insulating element (9) is assembled from a profiled base insulating part (9.1) that receives the contact rails (10) in longitudinal chambers and insulates them from each other, and a profiled top insulating part (9.2) covering the contact rails (10) and having access openings (9.23).

7. (Currently Amended) The frame support in accordance with claim 6, wherein the access openings (9.23) ~~of each of the inserts (7)~~ are formed by a group of at least two hole-shaped access openings assigned to separate contact rails (10).

8. (Previously Presented) The frame support in accordance with claim 7, wherein at least two access openings (9.23) are offset from each other in the longitudinal direction of the profiled insulating element (9).

9. (Previously Presented) The frame support in accordance with claim 8, wherein the contact elements are contact pins (7.11) matched in size and position to the access openings (9.23).

10. (Previously Presented) The frame support in accordance with claim 9, wherein the inserts (7) have snap-in elements (7.14, 7.14') to prevent removal from one of the profiled receiving element (6) and the counter snap-in elements (6.12, 9.4) formed on the profiled insulating element (9) except by using a tool or an actuating element (7.13) which releases a snapped-in connection.

11. (Previously Presented) The frame support in accordance with claim 10, wherein one of at least three contact rails (10) are embedded in the profiled insulating element (9) and three connecting lines (16) form at least two separate current supply circuits.

12. (Previously Presented) The frame support in accordance with claim 11, wherein a number of the inserts (7) used is distributable over different current supply circuits.

13. (Previously Presented) The frame support in accordance with claim 12, wherein a dimension of the inserts (7) in the longitudinal direction of the electrification strip (60) is one of a unit of height and a whole-number multiple of the unit of height, and the inserts (7) receive at least one appliance plug.

14. (Previously Presented) The frame support in accordance with claim 13, wherein the profiled receiving element (6) has on at least one longitudinal side fastening elements for connection with one of at least one frame leg (2, 3) and a profiled mounting element (4, 5).

15. (Previously Presented) The frame support in accordance with claim 14, wherein the fastening elements each is one of a screw, a clip, a snap-in element, a plug and a clamping connection.

16. (Previously Presented) The frame support in accordance with claim 15, wherein the profiled receiving element (6) is H-shaped in a cross section formed by two lateral walls (6.1) and a center wall (6.4), and the inserts (7) are placed into the hollow space (6.3) on a side of the center wall (6.4) facing the user and one of the contact rails (10) and the connecting lines (16) are placed into the hollow space (6.3') facing away from the user and are accessible through the center wall (6.4).

17. (Currently Amended) The frame support in accordance with claim 16, wherein In a frame support for a rack or a switchgear cabinet, having an electrification arrangement combined with at least one frame leg (2, 3) or profiled mounting element (4), for at least one of supplying and removing electrical current one of to and from connectible devices, the frame support comprising:

the electrification arrangement having at least one separate electrification strip (60) attached to one of a frame leg (2, 3) and a profiled mounting element (4) formed by a hollow profiled receiving element (6) at least partially open

on a long side and having at least one hollow space in which one of contact rails (10) and connection lines (16) are installed and protected against electric shock; and
inserts (7) insertable into the electrification strip (60) and having plug receivers protected against electric shock for device plugs of devices to be connected, and contact elements (7.11) electrically contactable with the one of the contact rails (10) and the connecting lines (16), a profiled insulating element (9), in which the contact rails (10) are embedded and are accessible in a manner protected against electric shock through access openings (9.23) formed in the profiled insulating element (9), being inserted into at least one hollow space (6.3, 6.3') of the profiled receiving element (6), the at least one hollow space (6.3) being one of rectangular and square in cross section and having a base wall (6.2) located opposite the open longitudinal side adjoined by lateral walls (6.1), a bottom (9.3) of a bottom section of the profiled insulated element (9) in which the contact rails (10) are embedded facing one of the base wall (6.2) and a lateral wall (6.1), and the contact rails (10) contactable with the contact elements (7.11) via access openings (9.23), which are narrow for electric shock protection and cut into the bottom section of a side located opposite a bottom side, the insulated profiled element (9) fixed in place in the profiled receiving element (6) by snap-in structures (9.21, 9.22, 9.22') and complementary counter snap-in structures (6.11, 6.11') arranged in the profiled receiving element (6),

the snap-in structures (9.21, 9.22, 9.22') and the counter snap-in structures (6.11, 6.11') having steep snap-in flanks opposite an insertion direction, for preventing removal of the profiled insulating element (9), the profiled insulating element (9) assembled from a profiled base insulating part (9.1) that receives the contact rails (10) in longitudinal chambers and insulates them from each other, and a profiled top insulating part (9.2) covering the contact rails (10) and having access openings (9.23), the access openings (9.23) formed by a group of at least two hole-shaped access openings assigned to separate contact rails (10), at least two access openings (9.23) offset from each other in the longitudinal direction of the profiled insulating element (9), the contact elements being contact pins (7.11) matched in size and position to the access openings (9.23), the inserts (7) having snap-in elements (7.14, 7.14') to prevent removal from one of the profiled receiving element (6) and the counter snap-in elements (6.12, 9.4) formed on the profiled insulating element (9) except by using a tool or an actuating element (7.13) which releases a snapped-in connection, one of at least three contact rails (10) embedded in the profiled insulating element (9) and three connecting lines (16) forming at least two separate current supply circuits, a number of the inserts (7) used being distributable over different current supply circuits, a dimension of the inserts (7) in the longitudinal direction of the electrification strip (60) being one of a unit of height and a whole-number multiple of the unit of height,

the inserts (7) receiving at least one appliance plug, the profiled receiving element (6) having on at least one longitudinal side fastening elements for connection with one of at least one frame leg (2, 3) and a profiled mounting element (4, 5), the fastening elements each being one of a screw, a clip, a snap-in element, a plug and a clamping connection, the profiled receiving element (6) being H-shaped in a cross section formed by two lateral walls (6.1) and a center wall (6.4), and the inserts (7) being placed into the hollow space (6.3) on a side of the center wall (6.4) facing the user and one of the contact rails (10) and the connecting lines (16) being placed into the hollow space (6.3') facing away from the user and being accessible through the center wall (6.4), cutouts [[are]] in the center wall (5.4), into which plug-in couplings (11) are inserted and protected against electric shock, which are accessible from the user side, and at least one plug unit [[is]] being matched to the plug-in couplings (11) arranged on the back of the inserts (7) facing away from the user.

18. (Previously Presented) The frame support in accordance with claim 17, wherein two plug-in couplings (11) per insert (7) are spaced apart from each other in the longitudinal direction of the profiled receiving element and are connected to different current supply arrangements (7.4, 7.5), and backs of the inserts (7) for selecting one of the two current supply arrangements (7.4, 7.5) is insertable into the

profiled receiving element (6) rotated by 180° and can be connected with the respective plug-in coupling (11).

19. (Previously Presented) The frame support in accordance with claim 18, wherein the inserts (7) are modular housings with cap-like closure pieces (7.3) which, from one of the adjoining narrow sides are placed on ends remote from each other in the longitudinal direction, on sides of which the snap-in elements (7.14) are formed of one piece with releasable resilient snap-in fingers and actuating elements (7.13).

20. (Previously Presented) The frame support in accordance with claim 19, wherein an overload release device is integrated into the inserts.

21. (Previously Presented) The frame support in accordance with claim 20, wherein at least one electric shock protected current feed-in coupling (12) for the current supply is arranged in an end section of the profiled receiving element (6), and a current feed-in plug (13) is matched to the current feed-in coupling (12) and has a connected current supply cable (14).

22. (Previously Presented) The frame support in accordance with claim 21, wherein the current feed-in coupling (12) is embodied on or in a feed-in module (15), and a line element for voltage conversion or adaptation, a current limiting device and/or a switching element for the sequential activation of individual inserts (7) is integrated into the feed-in module (15).

23. (Previously Presented) The frame support in accordance with claim 1, used for an electrification arrangement for the rack or a switchgear cabinet.

24. (Previously Presented) The frame support in accordance with claim 23, wherein the current feed-in coupling (12) is embodied on or in a feed-in module (15), and a line element for voltage conversion or adaptation, a current limiting device and/or a switching element for the sequential activation of individual inserts (7) is integrated into the feed-in module (15).

25. (Previously Presented) The frame support in accordance with claim 2, wherein the insulated profiled element (9) is fixed in place in the profiled receiving element (6) by snap-in structures (9.21, 9.22, 9.22') and complementary counter snap-in structures (6.11, 6.11') arranged in the profiled receiving element (6).

26. (Previously Presented) The frame support in accordance with claim 2, wherein the profiled insulating element (9) is assembled from a profiled base insulating part (9.1) that receives the contact rails (10) in longitudinal chambers and insulates them from each other, and a profiled top insulating part (9.2) covering the contact rails (10) and having access openings (9.23).

27. (Previously Presented) The frame support in accordance with claim 2, wherein the access openings (9.23) of each of the inserts (7) are formed by a group of at least two hole-shaped access openings assigned to separate contact rails (10).

28. (Previously Presented) The frame support in accordance with claim 2, wherein the contact elements are contact pins (7.11) matched in size and position to the access openings (9.23).

29. (Previously Presented) The frame support in accordance with claim 1, wherein the inserts (7) have snap-in elements (7.14, 7.14') to prevent removal from one of the profiled receiving element (6) and the counter snap-in elements (6.12,

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9.4) formed on the profiled insulating element (9) except by using a tool or an actuating element (7.13) which releases a snapped-in connection.

30. (Previously Presented) The frame support in accordance with claim 1, wherein one of at least three contact rails (10) are embedded in the profiled insulating element (9) and three connecting lines (16) form at least two separate current supply circuits.

31. (Previously Presented) The frame support in accordance with claim 1, wherein a dimension of the inserts (7) in the longitudinal direction of the electrification strip (60) is one of a unit of height and a whole-number multiple of the unit of height, and the inserts (7) receive at least one appliance plug.

32. (Previously Presented) The frame support in accordance with claim 1, wherein the profiled receiving element (6) has on at least one longitudinal side fastening elements for connection with one of at least one frame leg (2, 3) and a profiled mounting element (4, 5).

33. (Previously Presented) The frame support in accordance with claim 1, wherein the profiled receiving element (6) is H-shaped in a cross section formed by two lateral walls (6.1) and a center wall (6.4), and the inserts (7) are placed into the hollow space (6.3) on a side of the center wall (6.4) facing the user and one of the contact rails (10) and the connecting lines (16) are placed into the hollow space (6.3') facing away from the user and are accessible through the center wall (6.4).

34. (Currently Amended) The frame support in accordance with claim 1, wherein In a frame support for a rack or a switchgear cabinet, having an electrification arrangement combined with at least one frame leg (2, 3) or profiled mounting element (4), for at least one of supplying and removing electrical current one of to and from connectible devices, the frame support comprising:

the electrification arrangement having at least one separate electrification strip (60) attached to one of a frame leg (2, 3) and a profiled mounting element (4) formed by a hollow profiled receiving element (6) at least partially open on a long side and having at least one hollow space in which one of contact rails (10) and connection lines (16) are installed and protected against electric shock; and

inserts (7) insertable into the electrification strip (60) and having plug receivers protected against electric shock for device plugs of devices to be connected, and contact elements (7.11) electrically contactable with the one of the contact rails (10) and the connecting lines (16), the inserts (7) are being modular housings with cap-like closure pieces (7.3) which, from one of the adjoining narrow sides are placed on ends remote from each other in the longitudinal direction, on sides of which the snap-in elements (7.14) are formed of one piece with releasable resilient snap-in fingers and actuating elements (7.13).

35. (Currently Amended) The frame support in accordance with claim [[1]] 17, wherein an overload release device is integrated into the inserts.

36. (Currently Amended) The frame support in accordance with claim 1, wherein In a frame support for a rack or a switchgear cabinet, having an electrification arrangement combined with at least one frame leg (2, 3) or profiled mounting element (4), for at least one of supplying and removing electrical current one of to and from connectible devices, the frame support comprising:

the electrification arrangement having at least one separate electrification strip (60) attached to one of a frame leg (2, 3) and a profiled mounting element (4) formed by a hollow profiled receiving element (6) at least partially open on a long side and having at least one hollow space in which one of contact rails (10) and connection lines (16) are installed and protected against electric shock; and

inserts (7) insertable into the electrification strip (60) and having plug receivers protected against electric shock for device plugs of devices to be connected, and contact elements (7.11) electrically contactable with the one of the contact rails (10) and the connecting lines (16), at least one electric shock protected current feed-in coupling (12) for the current supply [[is]] arranged in an end section of the profiled receiving element (6), and a current feed-in plug (13) [[is]] matched to the current feed-in coupling (12) and has having a connected current supply cable (14).